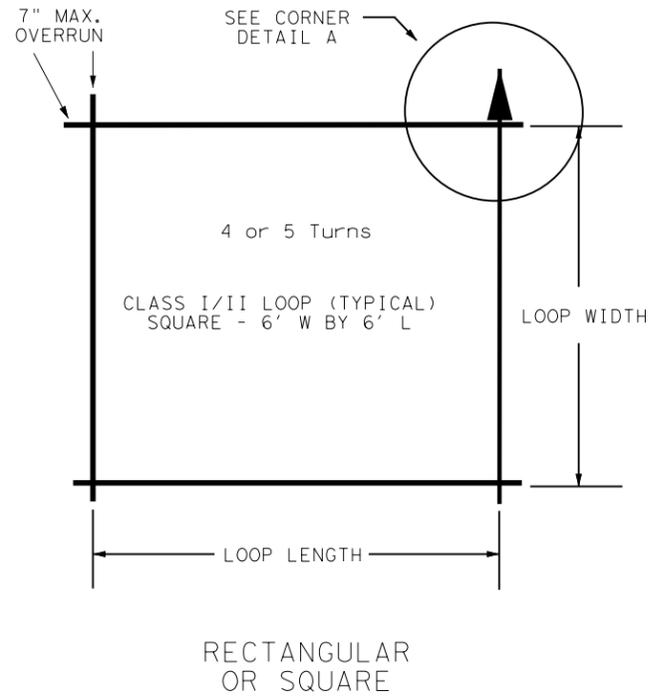


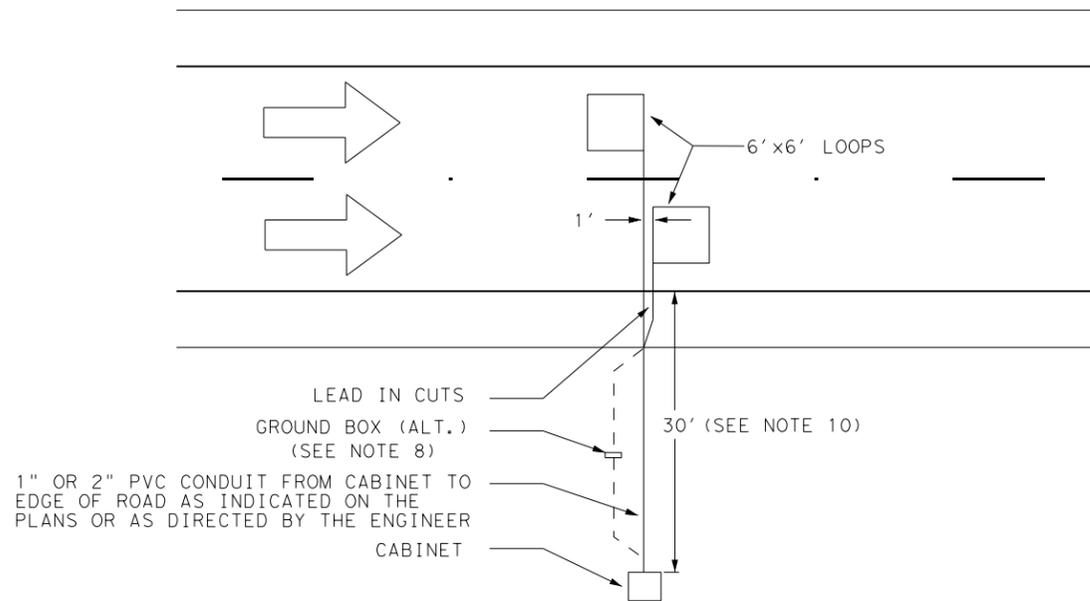
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

TYPICAL LOOP DETECTOR LAYOUTS

(AS SPECIFIED IN PLANS)



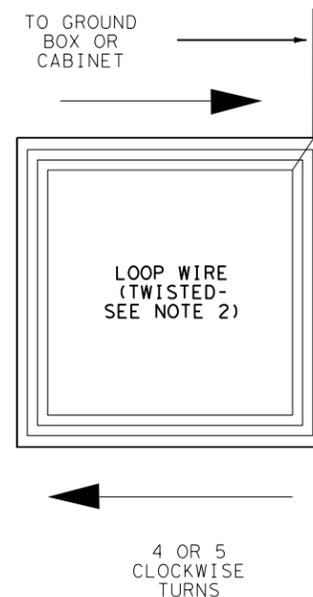
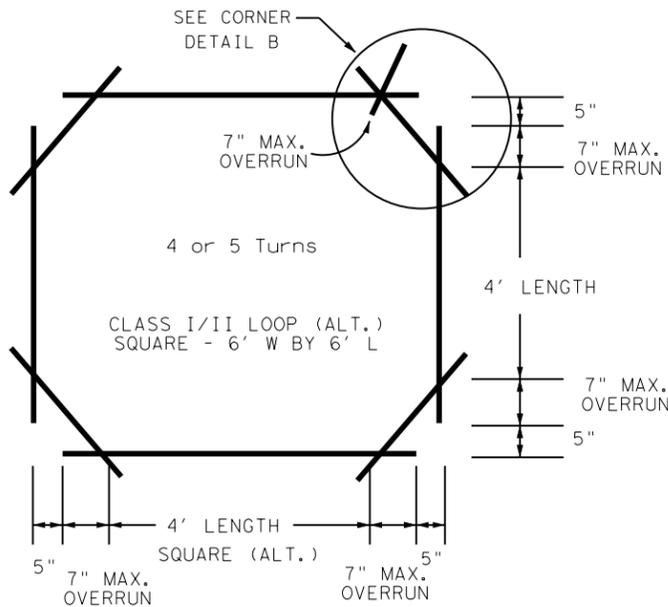
TYPICAL VOLUME LOOP ONLY SITE EXAMPLE



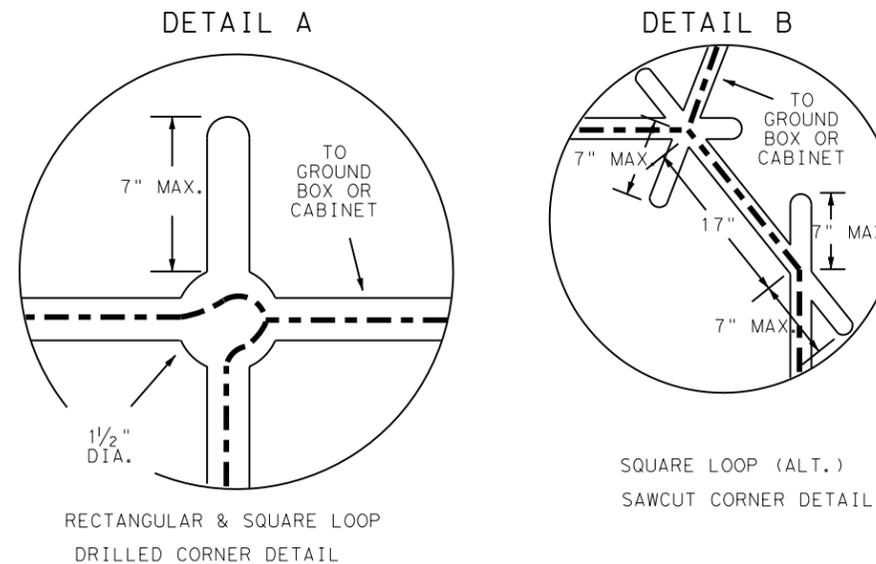
GENERAL NOTES:

1. Make pavement cuts with a concrete saw. Create neat lines and remove loose materials. Clean and dry cut prior to placing wire and sealing compound.
2. Fully encapsulate wires, lead ins, and sensors placed with acceptable sealants. Sealing compound shall be in accordance with DMS 6340. The sensors and epoxy will be provided by TxDOT.
3. Make separate saw cut from each loop to pavement edge or as directed by the Engineer. Run each cable in their own 1" or 2" PVC conduit from the pavement edge to either the ground box or cabinet or as directed by the Engineer. Install two 2" PVC conduits or one 3" PVC conduit at the cabinet unless otherwise directed by Engineer. Consolidate wires from the ground box to the cabinet.
4. Loop wire shall be 14 AWG IMSA 51-3 Stranded 600 v Type XHHW. Twist wire from the loop to the ground box or cabinet a minimum of five turns per foot. No splices are permitted in the loop wire to the ground box.
5. The lead in cable, if installed, from the ground box to the cabinet shall be 14 AWG Stranded Copper twisted shielded pair with 600 v polyethylene insulation and jacket. Solder the lead in cable to the loop wire and seal joints with Scotchcast or other method acceptable to the Engineer.
6. The loop location, configuration, and number of turns shall be as indicated on the plans or as directed by the Engineer.
7. Place four turns of cable for loops in asphalt and five turns in concrete unless otherwise directed by the Engineer.
8. Make splices between the loop wire and lead in cable only in the ground box or as directed by the Engineer. Run wire into ground box then directly to cabinet with a maximum of one splice between loop and cabinet.
9. Refer also to LD(1) Loop Detector Installation Details.
10. Set back cabinet 30' from edge of traveled lane unless otherwise directed by Engineer.

LOOP WINDING DETAILS



TYPICAL CORNER DETAILS



7" OVERRUN BASED ON 24" DIAMETER SAW BLADE

DATE:
FILE:

		Transportation Planning Programming Division	
<h2>TRAFFIC DATA COLLECTION LOOP DETAILS</h2>			
<h3>TDC (3) - 22</h3>			
FILE: tdc(3)-21.dgn	DN:	CK:	DW: CK:
© TxDOT August 2021	CONT	SECT	JOB HIGHWAY
REVISIONS	DIST		COUNTY SHEET NO.
October 2022			